

Title (en)

V2X COMMUNICATION DEVICE AND METHOD FOR TRANSMITTING AND RECEIVING V2X MESSAGE THEREOF

Title (de)

V2X-KOMMUNIKATIONSVORRICHTUNG UND VERFAHREN ZUM SENDEN UND EMPFANGEN VON V2X-NACHRICHTEN DAFÜR

Title (fr)

DISPOSITIF DE COMMUNICATION V2X ET PROCÉDÉ ASSOCIÉ D'ÉMISSION ET DE RÉCEPTION D'UN MESSAGE V2X

Publication

EP 3585078 A4 20201223 (EN)

Application

EP 17901727 A 20171229

Priority

- US 201762475829 P 20170323
- US 201762475827 P 20170323
- US 201762475825 P 20170323
- US 201762486465 P 20170418
- KR 2017015759 W 20171229

Abstract (en)

[origin: EP3585078A1] A method for receiving a V2X message by a V2X communication apparatus is disclosed. The method for receiving a V2X message may include receiving a V2V message including Cooperative Adaptive Cruise Control (CACC) information from at least one CACC vehicle, and the CACC information includes CACC String ID (CSID) information for identifying a CACC string to which the CACC vehicle is belonged and string length management information used for managing a string length of the CACC string, obtaining the CSID information and the string length management information from the V2V message; and setting a value of the string length management information of the subject vehicle based on the CSID information and the string length management information. Here, the string length management information may include at least one of Order In String (OIS) information indicating a current order of the CACC vehicle in the CACC string or CACC String Length (CSL) information indicating a length of the CACC string.

IPC 8 full level

H04W 4/12 (2009.01); **H04W 4/44** (2018.01)

CPC (source: EP KR US)

B60W 30/16 (2013.01 - US); **H04W 4/02** (2013.01 - KR); **H04W 4/12** (2013.01 - EP KR US); **H04W 4/40** (2018.01 - US); **H04W 4/44** (2018.01 - EP)

Citation (search report)

- [A] WO 2017011039 A1 20170119 - INTEL CORP [US]
- [Y] "Intelligent Transport System (ITS); Cooperative Adaptive Cruise Control (C-ACC); Pre-standardization study", vol. WG ITS WG1 Application Requirements and Services, no. V0.1.1, 22 February 2017 (2017-02-22), pages 1 - 50, XP014303853, Retrieved from the Internet <URL:http://docbox.etsi.org/ITS/ITSWG1/70-Draft/WG164/ITS-00164v011.doc> [retrieved on 20170222]
- [Y] SHLADOVER STEVEN ET AL: "COOPERATIVE ADAPTIVE CRUISE CONTROL (CACC) DEFINITIONS AND OPERATING CONCEPTS", 2015 TRB ANNUAL MEETING, 1 January 2015 (2015-01-01), pages 1 - 16, XP055552573, Retrieved from the Internet <URL:http://www.trb.org/AnnualMeeting/AnnualMeeting.aspx> [retrieved on 20190206]
- See references of WO 2018174385A1

Cited by

CN113682305A; DE102020120970A1; WO2021142781A1

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DOCDB simple family (application)

EP 17901727 A 20171229; CN 201780088858 A 20171229; JP 2019552070 A 20171229; KR 2017015759 W 20171229; KR 20197019649 A 20171229; US 201716606184 A 20171229